

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/150,947B

DATE: 08/24/2000
TIME: 14:43:52

Input Set : A:\Cpg.ptc
Output Set: N:\CRF3\08242000\I150947B.raw

5 <110> APPLICANT: Kaempfer, Raymond
6 Arad, Gila
8 <120> TITLE OF INVENTION: BROAD SPECTRUM PYROGENIC EXOTOXINS
9 ANTAGONISTS AND VACCINES
11 <130> FILE REFERENCE: A31967-PCT-USA-A
13 <140> CURRENT APPLICATION NUMBER: 09/150,947B
14 <141> CURRENT FILING DATE: 1998-09-10
16 <150> PRIOR APPLICATION NUMBER: PCT/IL97/00438
17 <151> PRIOR FILING DATE: 1997-12-30
19 <150> PRIOR APPLICATION NUMBER: ISRAEL 119938
20 <151> PRIOR FILING DATE: 1996-12-30
22 <160> NUMBER OF SEQ ID NOS: 12
24 <170> SOFTWARE: FastSEQ for Windows Version 3.0
26 <210> SEQ ID NO: 1
27 LENGTH: 26
28 <212> TYPE: PRT
29 <213> ORGANISM: Staphylococcus aureus
31 <400> SEQUENCE: 1
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33 1 5 10 15
34 Lys Lys Lys Val Thr Ala Gln Glu Leu Asp
35 20 25
37 <210> SEQ ID NO: 2
38 LENGTH: 12
39 <212> TYPE: PRT
40 <213> ORGANISM: Staphylococcus aureus
42 <400> SEQUENCE: 2
43 Tyr Asn Lys Lys Lys Ala Thr Val Gln Glu Leu Asp
44 1 5 10
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47 LENGTH: 10
48 <212> TYPE: PRT
49 <213> ORGANISM: Staphylococcus aureus
51 <400> SEQUENCE: 3
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53 1 5 10
55 <210> SEQ ID NO: 4
56 LENGTH: 10
57 <212> TYPE: PRT
58 <213> ORGANISM: Staphylococcus aureus
60 <400> SEQUENCE: 4
61 Lys Lys Lys Ala Thr Val Gln Glu Leu Asp
62 1 5 10
64 <210> SEQ ID NO: 5
65 LENGTH: 13
66 <212> TYPE: PRT
67 <213> ORGANISM: Staphylococcus aureus

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69 <220> FEATURE:
70 <221> NAME/KEY: LIPID
71 <222> LOCATION: (1)...(1)
72 <223> OTHER INFORMATION: N-lauryl cysteine residue
74 <400> SEQUENCE: 5
75 Cys Thr Asn Lys Lys Val Thr Ala Gln Glu Leu Asp
76 1 5 10
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 13
80 <212> TYPE: PRT
81 <213> ORGANISM: Staphylococcus aureus
83 <220> FEATURE:
84 <221> NAME/KEY: LIPID
85 <222> LOCATION: (1)...(1)
86 <223> OTHER INFORMATION: N-lauryl cysteine residue
88 <400> SEQUENCE: 6
89 Cys Tyr Asn Lys Lys Lys Ala Thr Val Gln Glu Leu Asp
90 1 5 10
92 <210> SEQ ID NO: 7
93 <211> LENGTH: 16
94 <212> TYPE: PRT
95 <213> ORGANISM: Staphylococcus aureus
97 <400> SEQUENCE: 7
98 Tyr Asn Lys Lys Lys Ala Thr Val Gln Glu Leu Asp Tyr Asn Lys Lys
99 1 5 10 15
101 <210> SEQ ID NO: 8
102 <211> LENGTH: 35
103 <212> TYPE: PRT
104 <213> ORGANISM: Staphylococcus aureus
106 <400> SEQUENCE: 8
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108 1 5 10 15
109 Lys Ala Thr Val Gln Glu Leu Asp Tyr Asn Lys Lys Lys Ala Thr Val
110 20 25 30
111 Glu Leu Asp
112 35
114 <210> SEQ ID NO: 9
115 <211> LENGTH: 14
116 <212> TYPE: PRT
117 <213> ORGANISM: Staphylococcus aureus
119 <220> FEATURE:
120 <221> NAME/KEY: DISULFID
121 <222> LOCATION: (1)...(1)
123 <221> NAME/KEY: DISULFID
124 <222> LOCATION: (14)...(14)
126 <400> SEQUENCE: 9
127 Cys Tyr Asn Lys Lys Lys Ala Thr Val Gln Glu Leu Asp Cys
128 1 5 10
130 <210> SEQ ID NO: 10

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131 <211> LENGTH: 14
132 <212> TYPE: PRT
133 <213> ORGANISM: Staphylococcus aureus
135 <220> FEATURE:
136 <221> NAME/KEY: MOD_RES
137 <222> LOCATION: (1)...(1)
138 <223> OTHER INFORMATION: D-alanine
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141 <222> LOCATION: (14)...(14)
142 <223> OTHER INFORMATION: D-alanine
144 <400> SEQUENCE: 10
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146 1 5 10
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 13
150 <212> TYPE: PRT
151 <213> ORGANISM: Staphylococcus aureus
153 <220> FEATURE:
154 <221> NAME/KEY: ACETYLATION
155 <222> LOCATION: (1)...(1)
156 <223> OTHER INFORMATION: N-acetyl group
158 <221> NAME/KEY: MOD_RES
159 <222> LOCATION: (13)...(13)
160 <223> OTHER INFORMATION: D-alanine
162 <400> SEQUENCE: 11
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167 <211> LENGTH: 239
168 <212> TYPE: PRT
169 <213> ORGANISM: Staphylococcus aureus
171 <400> SEQUENCE: 12
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174 Phe Thr Gly Leu Met Glu Asn Met Lys Val Leu Tyr Asp Asp Asn His
175 20 25 30
176 Val Ser Ala Ile Asn Val Lys Ser Ile Asp Gln Phe Leu Tyr Phe Asp
177 35 40 45
178 Leu Ile Tyr Ser Ile Lys Asp Thr Lys Leu Gly Asn Tyr Asp Asn Val
179 50 55 60
180 Arg Val Glu Phe Lys Asn Lys Asp Leu Ala Asp Lys Tyr Lys Asp Lys
181 65 70 75 80
182 Tyr Val Asp Val Phe Gly Ala Asn Tyr Tyr Gln Cys Tyr Phe Ser
183 85 90 95
184 Lys Lys Thr Asn Asp Ile Asn Ser His Glu Thr Asp Lys Arg Lys Thr
185 100 105 110
186 Cys Met Tyr Gly Gly Val Thr Glu His Asn Gly Asn Gln Leu Asp Lys
187 115 120 125
188 Tyr Arg Ser Ile Thr Val Arg Val Phe Glu Asp Gly Lys Asn Leu Leu

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189	130	135	140	
190	Ser Phe Asp Val Gln Thr Asn Lys Lys Lys Val Thr Ala Gln Glu Leu			
191	145	150	155	160
192	Asp Tyr Leu Thr Arg His Tyr Leu Val Lys Asn Lys Lys Leu Tyr Glu			
193	165	170	175	
194	Phe Asn Asn Ser Pro Tyr Glu Thr Gly Tyr Ile Lys Phe Ile Glu Asn			
195	180	185	190	
196	Glu Asn Ser Phe Trp Tyr Asp Met Met Pro Ala Pro Gly Asp Lys Phe			
197	195	200	205	
198	Asp Gln Ser Lys Tyr Leu Met Met Tyr Asn Asp Asn Lys Met Val Asp			
199	210	215	220	
200	Ser Lys Asp Val Lys Ile Glu Val Tyr Leu Thr Thr Lys Lys Lys			
201	225	230	235	

VERIFICATION SUMMARY
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OK L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11